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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/700,093	11/10/2000	Lucian Hirsch	P00-1767	1415	
21171	7590 01/11/2005		EXAMINER		
STAAS & HALSEY LLP			ZHEN, LI B		
SUITE 700 1201 NEW YORK AVENUE, N.W.			ART UNIT	PAPER NUMBER	
WASHINGT	ON, DC 20005		2126	2126	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati n No.	Applicant(s)				
•	09/700,093	HIRSCH ET AL.				
Office Action Summary	Examin r	Art Unit				
·	Li B. Zhen	2126				
The MAILING DATE of this communication app	ears on the cover sh et with the c	orrespond nce address				
Period f r Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 20 Oc	ctober 2004.					
<u></u>	·					
, <u> </u>						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disp sition of Claims						
4)⊠ Claim(s) <u>1-29</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-29</u> is/are rejected.						
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents)-(d) or (f).				
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

1. Claims 1 – 29 are pending in the current application.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1 and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 5,987,514 to Rangarajan [cited in the previous office action].
- 4. As to claim 1, Rangarajan teaches a method of processing state information in a communication system by way of a management network [col. 2, lines 18 32] having a number of management levels [col. 3, lines 40 57], comprising:

transmitting state information [event report] between an agent [mid-level agent] of one management level [mid-level manager: a mid-level agent that receives event request from the network manager; col. 3, lines 20 – 57] and a manager [network manager 48] of a next-higher management level [mid-level manager 40-45 generates an event report 78 and sends the event report 78 to the network manager 48; col. 6, lines 30 - 67] for a state realignment [ascertain the status of the devices associated with

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the mid-level managers 40-45; col. 5, lines 39 – 57] upon request of the manager [network manager 48 generates regularly scheduled event requests 82; col. 5, lines 39 – 57],

sending, by the manager [network manager 48], a request message [event request can contain the following fields: the name of the event request, a destination address, interval, count, and a list of attributes records having the threshold conditions; col. 8, lines 10 - 25] for performing the state realignment to the agent [network manager 48 generates regularly scheduled event requests 82 to mid-level managers 40-45 in order to ascertain the status of the devices associated with the mid-level managers 40-45; col. 5, lines 39 - 57];

checking, by the agent, the state information with regard to deviations from a normal state [mid-level managers 40-45 gather information from the various devices, compare the information to certain conditions, and generate events when the conditions are satisfied; col. 6, lines 30 - 57]; and

sending, by the agent to the manager in one or more successive messages [mid-level manager 40-45 generates an event report 78 and sends the event report 78 to the network manager 48; col. 6, lines 43 - 57] in response to the request message, only selected state information indicating the deviations from the normal state [attribute values are compared with the conditions specified in the event request. When a value satisfies a condition, the mid-level manager forwards the network manager an event report signifying the occurrence of the event; col. 3, lines 42 - 52].

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5. As to claim 17, this is a system claim that corresponds to method claim 1; note the rejection to claim 1 above, which also meets this system claim.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 2 16 and 18 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rangarajan in view of U.S. Patent No. 6,404,743 to Meandzija [cited in the previous office action].
- 8. As to claim 2, Rangarajan teaches utilizing state attributes selected from the group consisting of an operational state and a usage state [col. 9, lines 48 54]. Rangarajan does not specifically teach an administrative state.
- 9. However, Meandzija teaches utilizing state attributes selected from the group consisting of an operational state [operational state], an administrative state [an event forwarding discrimination group, which includes an administrative state, an operational state; column 11, lines 38 45] and a usage state [usage state 420; column 12, lines 29 36] as state information.
- 10. It would have been obvious to a person of ordinary skill in the art at the time of the invention to apply the teaching of utilizing administrative state as state information

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as taught by Meandzija to the invention of Rangarajan because administrative state can be set by a manager and used to administratively prohibit an agent from use and in conjunction with a community string, the administrative state can be used for concurrency control [col. 12, lines 8 – 12 of Meandzija].

- 11. As to claim 3, Rangarajan as modified teaches the normal state is defined by values for the state attributes [state values and state transitions are as defined in the ITU-T X.731 standard; column 11, line 65 column 13, line 33 of Meandzija] selected from the group consisting of an operational state, an administrative state, a usage state, an unknown state, an alarm status [value defined for the alarm status in the X.731 standard is a set of enumerated values; column 12, lines 54 65 of Meandzija], and an available status [value defined for the availability status in the X.731 standard is a set of enumerated values; column 13, line 9 of Meandzija].
- 12. As to claim 4, Rangarajan as modified teaches utilizing state attributes for characterizing an operational readiness [operational state 415 describes the operational state of the unit represented by the agent/subagent; column 12, lines 13 28 of Meandzija], manageability [administrative state 410 describes the administrative state of the unit represented by the agent/subagent; column 11, line 65 column 12, line 2 of Meandzija] and use of a resource [availability status 435 describes-the availability status of the unit represented by the agent/subagent; column 12, line 65 column 13, line 9 of Meandzija] supported by the agent in the communication system as state information.

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- 13. As to claim 5, Rangarajan as modified teaches utilizing status attributes, which specify for a resource supported by the agent in the communication system whether it is in an unknown state [unknown status describes the unknown status of the unit represented by the agent/subagent; column 13, lines 27 34 of Meandzija], in an alarmed state [alarm status 430 describes the alarm status of the unit represented by the agent/subagent; column 12, lines 54 65 of Meandzija] or in a state of availability [availability status 435 describes-the availability status of the unit represented by the agent/subagent; column 12, line 65 column 13, line 9 of Meandzija], as state information.
- 14. As to claim 6, Rangarajan as modified teaches sending by the manager in the request message a correlation information item for a correlation of the respective request with messages containing changed state information received by the agent [Event Forwarding Discriminator (EFD) Group 530 comprises EFD configuration information defining what types of events an EFD will transform into notifications, at what times of day it will do so, and to which managers it will send the notifications to; column 13, lines 48 55 of Meandzija].
- 15. As to claim 7, Rangarajan as modified teaches sending by the agent in a message for starting the state realignment, a correlation information item for correlating the messages containing changed state information subsequently sent with the state

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realignment started in each case [once the agent generates an event as specified in the Event table 515, it checks an EFD Table 535 to find an EFD that matches that event and specifies what kind of notification is to be generated, and to which manager that notification is to be sent; column 14, lines 8 – 15 of Meandzija].

- 16. As to claim 8, Rangarajan as modified teaches sending the correlation information generated by the agent in the message or messages containing the changed state information [generating the event at the agent and communicating a notification regarding the event from the agent to the management station via the network; column 4, lines 55 65 of Meandzija].
- 17. As to claim 9, Rangarajan as modified teaches sending by the manager a parameter to the agent and controlling the state realignment in dependence on the parameter [event information also defines EFD information that defines pre-conditions for communicating a notification of an event from the agent 230 to the management station 210 via the network 160; column 10, lines 57 67 of Meandzija].
- 18. As to claim 10, Rangarajan as modified teaches sending by the manager a parameter and automatically initiating the state realignment [automatic schedule] by the agent utilizing the parameter [the agent may have an automatic schedule which defines time periods in which a notification may be provided for certain events; column 6, lines 13 21 of Meandzija].

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19. As to claims 11 and 12, Rangarajan as modified teaches providing a parameter by the manager with a parameter value which specifies a starting time [start time] and end time [stop time] for the automatic state realignment [scheduling function 540 includes specifications of a daily start and stop time and a weekly mask specifying when the EFD changes availability status from off-duty to available; column 14, lines 16 – 33 of Meandzija].

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- 20. As to claim 13, Rangarajan as modified teaches providing by the manager a parameter with a parameter value which specifies a time interval [time periods] for a repetition of the automatic state realignment [the agent may have an automatic schedule which defines time periods in which a notification may be provided for certain events; column 6, lines 13 21 of Meandzija].
- 21. As to claim 14, Rangarajan as modified teaches providing by the manager a parameter with a parameter value which characterizes resources for which changed state information [specifies what type of notification] must be transmitted by the agent [Each EFD specifies what type of notification is to be sent for an event that has occurred in the agent; column 13, lines 55 67 of Meandzija].
- 22. As to claim 15, Rangarajan as modified teaches providing, by the manager, a parameter [control status] with a parameter value that permits interruption [suspended]

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of a running state realignment [control status describes the control status of the unit represented by the agent/subagent with the possible values of subjectToTest, partLocked, reservedToTest, suspended, and free; column 13, lines 8 – 19 of Meandzija].

- 23. As to claim 16, Rangarajan as modified teaches sending, by the manager, the parameter to the agent in the request message [events processing module 224 is used to provide event information that is communicated to the agent to define pre-conditions for the agent to generate an event; column 10, lines 57 67 of Meandzija].
- 24. As to claim 24, Rangarajan as modified teaches utilizing state attributes selected from the group consisting of an unknown state [unknown status describes the unknown status of the unit represented by the agent/subagent; column 13, lines 27 34 of Meandzija], an alarm status [alarm status 430 describes the alarm status of the unit represented by the agent/subagent; column 12, lines 54 65 of Meandzija], and an available status [availability status 435 describes-the availability status of the unit represented by the agent/subagent; column 12, line 65 column 13, line 9 of Meandzija] as state information.
- 25. As to claims 25 28, these are rejected for the same reasons as claim 19 and 14
 16 above.

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26. As to claims 18 - 23 and 29, these are system claims that correspond to method claims 2 - 5, 9, 10 and 24; note the rejection to claims 2 - 5, 9, 10 and 24 above, which also meets these system claims.

Response to Arguments

27. Applicant's arguments filed August 18, 2004 have been fully considered but they are not persuasive.

In response to the Final Office Action mailed on May 18, 2004, applicant argues that, "the device (agent) does not do any comparing or checking, as recited in the independent claims" [p. 8; lines 16 – 17]. Examiner respectfully disagrees because the mid-level manager, not the device, of Rangarajan corresponds to the "agent" of the claims. In the Final Office Action dated May 18, 2004, examiner mapped the "network manager" of Rangarajan to the "manager" in the claims and the "mid-level manager" of Rangarajan is mapped to the "agent" in the claims [see Final Office Action dated May 18, 2004; p. 3, last paragraph]. Rangarajan discloses that the mid-level manager is an agent [mid-level agent; col. 3, lines 40 – 42] and the mid-level manager checks the state information with regard to deviations from a normal state [attribute values are compared with the conditions specified in the event request. When a value satisfies a condition, the mid-level manager forwards the network manager an event report signifying the occurrence of the event; col. 3, lines 42 – 52]. Finally, examiner notes that the network manager has a higher management level than the mid-level manager because the network manager controls the plurality of mid-level managers [It can stop the mid-level

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manager 40-45 from polling the attribute of the device by issuing a "stop" event request

to the appropriate mid-level manager; col. 5, lines 57 – 63].

The arguments with respect to the Meandzija reference regarding the

independent claims are moot in view of the new ground of rejection.

Conclusion

28. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Li B. Zhen whose telephone number is (571) 272-3768.

The examiner can normally be reached on Mon - Fri, 8:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Li B. Zhen

Examiner

Art Unit 2126

lbz January 5, 2005

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